

Upper Newport Bay Locations

Segment 1

Segment 2

Segment 3

- 1 Jamboree Road Bridge
- 2 San Diego Creek
- 3 Unit I/III Basin
- 4 Tern Islands
- 5 Bullnose
- 6 Interpretive center
- 7 Santa Ana Delhi Channel
- 8 Main Dike
- 9 Unit II Basin
- 10 New Island
- 11 Upper Island
- 12 Big Canyon
- 13 Middle Island
- 14 Shellmaker Island
- 15 Northstar Beach
- 16 Dover Shores Marina
- 17 Newport Dunes Marina
- 18 Pacific Coast Highway Bridge
- 19 Lido Isle
- 20 Lower Newport Bay
- 21 Balboa Island



Sediment/ Maintenance Control Measures

Segment 1: Jamboree Rd. Bridge to Main Dike (Unit I/ III basin)	Segment 2: Main Dike to upper end of Middle Island (Unit II basin)	Segment 3: Middle Island to PCH Bridge
Do nothing – Maintain current Unit III config (-14 msl)	Do nothing to current Unit II basin – maintain existing config & depth	Maintain access/ nav channel from PCH bridge to southern end of Unit II basin for continued maintenance access of basins
Increase size & depth of Unit III basin by considering removal of 1 or both least tern islands. Islands to be relocated to another portion of UNB.	Dredge/ maintain Unit II basin to original design depth (-14 msl), limiting eastern extent of basin to border of New Island	Maintain nav channel from PCH bridge to the boat launch ramp, Newport Dunes, Dover Shores, & De Anza marina slips
Maintain channel between Unit III and Unit II basin to allow continued access for dredge & support equip (-14 msl)	Redesign Unit II by either/ or deepening, widening, or lengthening the basin	
	Maintain channel between Unit II basin & Upper Island for	

Environmental Restoration Measures

Segment 1: Jamboree Rd. Bridge to Main Dike (Unit I/ III basin)	Segment 2: Main Dike to upper end of Middle Island (Unit II basin)	Segment 3: Middle Island to PCH Bridge
Improve nest sites for least terns by clearing vegetation & adding sand to the island	Dredge a side channel around east side of New Island to isolate species & improve water circulation	Regrade/ restore Northstar Beach area to recreate a historical wetland w/o adversely impacting Aquatic Center
Construct small channels through marsh areas to increase foraging areas for birds & improve circulation (not accepted by resource agencies for all segments)	Remove dredge spoil to the west of Unit II basin in County of F&G property & restore to open water or mudflat/ low marsh	Dredge a side channel around the west side of Middle Island to improve tidal circulation & water quality
Remove bullnose section of land along NW side of Unit III basin & restore to open water or mudflat/ low marsh	Construct/ relocate new least tern islands in the Unit II basin, adjacent to the western portion of the Main Dike	Restore side channel around east side of Shellmaker Island to improve tidal circulation & water quality & isolate species
Remove exotics/ invasives and/	Redesign outlet of Santa Ana	Remove dredge spoils on upper

Environmental Restoration Measures - continued

Segment 1: Jamboree Rd. Bridge to Main Dike (Unit I/ III basin)	Segment 2: Main Dike to upper end of Middle Island (Unit II basin)	Segment 3: Middle Island to PCH Bridge
Remove other disturbed habitat areas along perimeter of Unit III basin (if supported by resource agencies)	Restore other disturbed habitat areas along perimeter of Unit II basin (if supported by resource agencies)	Restore eelgrass beds in lower portion of Upper Bay
		Construct small (dendritic) pilot channel north to south on Shellmaker Island as example for potential future restoration work

Upper Newport Bay: Access/ Other Measures

Segment 1: Jamboree Rd. Bridge to Main Dike (Unit I/ III basin)	Segment 2: Main Dike to upper end of Middle Island (Unit II basin)	Segment 3: Middle Island to PCH Bridge
Remove small sections of old dike works in marsh areas that still provide human & predator access	Restore trail on western side of Unit II basin where erosion occurred	Construct site-specific perimeter barriers to decrease unwanted intrusions (fence or vegetation for all segments)
Provide educational opportunities by constructing information kiosks & preparing a modeling display for the interpretive center		Investigate slope protection along Back bay Drive to ensure continued future access